

12. [New] The process as claimed in claim 11, wherein the organic compound is reduced by hydrogenation.

13. [New] The process as claimed in claim 11, wherein the anode is in contact with at least one hydrogenation catalyst.

14. [New] The process as claimed in claim 13, wherein the hydrogenation catalyst is a noble metal.

A 15. [New] The process as claimed in claim 13, wherein the hydrogenation catalyst is applied to a graphite felt.

16. [New] The process as claimed in claim 13, wherein the hydrogenation catalyst is deposited on the anode from suspension.

17. [New] The process as claimed in claim 13, wherein the hydrogenation catalyst in the form of a suspension is brought into contact with the anode.

18. [New] The process as claimed in claim 10, wherein the organic compound is both reduced and oxidized at the cathode.

19. [New] The process as claimed in claim 10, wherein the electrode is a gas diffusion electrode.

20. [New] The process as claimed in claim 10, wherein the organic compound is furan or a furan derivative or furan and a furan derivative.